references

Harris County Sugar

Land,

Department and City

Public

Works.

Of. O.F

Houston shall be

THE GUIDELINES PRESENTED IN THIS DOCUMENT INCLUDE THE MOST OFTEN REQUESTED INFORMATION REGARDING GEOMETRIC DESIGN OF SUBDIVISION STREETS. DESIGNATED MAJOR THOROUGHFARES(I), EXPRESS STREETS(I) WITHIN SUBDIVISIONS, AND EXISTING ACCESS STREETS, SHALL BE CONSIDERED FOR SPECIAL DESIGN FEATURES AND MAY REQUIRE HIGHER DESIGN CRITERIA THAN SHOWN HEREIN. ALSO DESIGN FEATURES NOT SHOWN IN THESE GUIDELINES SHOULD BE SPECIAL DESIGN FEATURES. IT IS ADVISABLE TO CONSULT WITH THE APPROPRIATE AGENCIES AND

REVIEW THE FOLLOWING PUBLICATIONS TO DETERMINE ADEQUATE THOROUGHFARE. REQUIREMENTS AND SPECIAL DESIGN FEATURES.

- RECOMMENDED GUIDELINES FOR SUBDIVISION STREETS. INSTITUTE OF TRANSPORTATION ENGINEERS, 1984.
- GUIDELINES FOR URBAN MAJOR STREETS DESIGN, INSTITUTE OF TRANSPORTATION ENGINEERS, 1984.
- A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AASHTO, 1984.
- TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION, 1980.

AGENCY ABBREVIATION:

HCED - HARRIS COUNTY ENGINEERING DEPARTMENT.

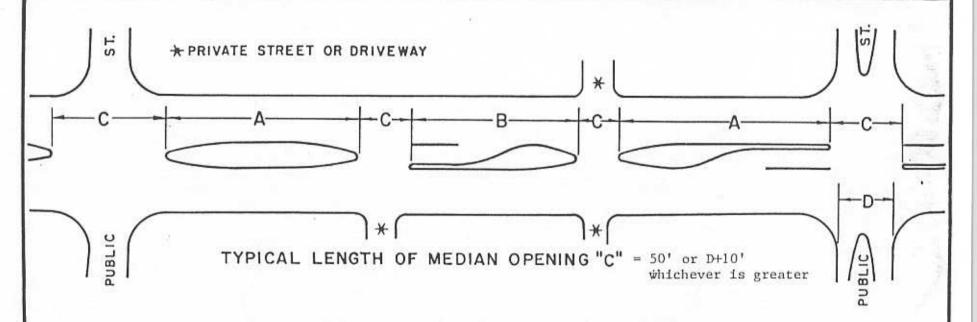
DOTT - CITY OF HOUSTON, DEPARTMENT OF TRAFFIC AND TRANSPORTATION.

DPW - CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS.

DPD - CITY OF HOUSTON, DEPARTMENT OF PLANNING AND DEVELOPMENT.

(I) DESIGNATED ROADWAY APPEARING ON THE MAJOR THOROUGHFARE AND FREEWAY PLAN, HOUSTON CITY PLANNING COMMISSION, AND HOUSTON EXPRESS STREET PLAN, DEPARTMENT OF TRAFFIC AND TRANSPORTATION.

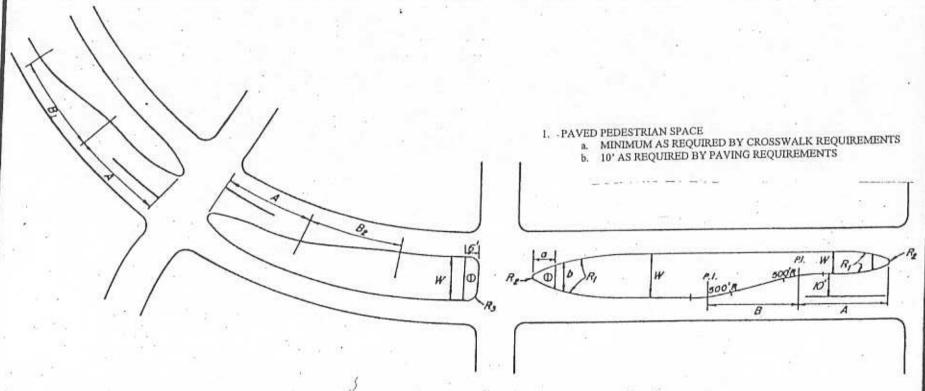
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MINIMUM ACCEPTABLE MEDIAN LENGTH FOR TYPE OF STREET

IF PLANNED DIVIDED STREET IS:	PURPOSE OF MEDIAN INTERRUPTION				
	MAJOR STREET/ THOROUGHFARE (A)	COLLECTOR STREET (A)	LOCAL STREET (A)	PRIVATE STREET OR DRIVEWAY (B)	
MAJOR STREET/ THOROUGHFARE	350'	300'	300'	300 '	
COLLECTOR STREET	300	2 50'	250'	250	
LOCAL STREET	2 50'	250'	250'	200	

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MEDIAN DIMENSIONS

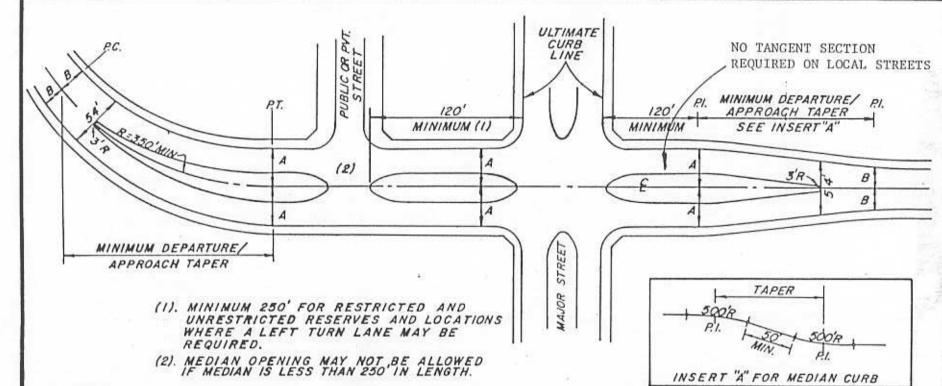
. W	R	R ₂	R ₃	
. ≤8'	NONE	<u>w</u> 2	NA	
>8'≤38'	90'	<u>₩</u> 5	NA	
· >38'	NONE	NONE	15'	

NA-NOT APPLICABLE

LEFT TURN BAY DIMENSIONS

- A = 150' MINIMUM AT INTERSECTION OF TWO MAJOR STREETS
 - = 100' MINIMUM AT ALL OTHER INTERSECTIONS
- B = 100' MINIMUM ON STRAIGHT ROADWAY. (FOR SINGLE LEFT)
 - = 150' MINIMUM ON STRAIGHT ROADWAY. (FOR DUAL LEFT)
- BI TAPER LENGTH MAY BE SHORTER IF IT IS ON A HORIZONTAL CURVE TO THE LEFT.
- B2 = TAPER LENGTH MAY BE LONGER IF CURVE IS TO THE RIGHT.

NOTE: DIMENSIONS MAY BE ADJUSTED AS DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS. THE ABOVE LENGTHS ARE MINIMUM DISTANCE AND MAY REQUIRE ADJUSTING TO COMPLY WITH ACCEPTABLE ENGINEERING PRACTICES OR AN APPROVED TRAFFIC IMPACT ANALYSIS.



NOTE:

a. APPROACH AND DEPARTURE TAPER REQUIREMENT:

L = WSP

WHERE L = LENGTH IN FEET S = SPEED IN M.R.H.

For S < 40

W= LATERAL OFFSET IN FEET

S = 30 M.P.H. MINIMUM DESIGN SPEED FOR SUBDIVISION STREETS

WIA-B

b. 350' MINIMUM CENTERLINE RADIUS FOR HORIZONTAL CURVE WITH APPROACH OR DEPARTURE TAPERS

c. Approach and departure taper requirement

s > 45

L = SW

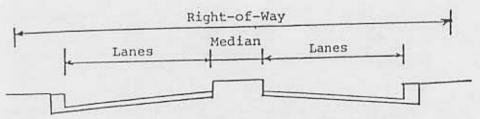
QUICK REFERENCE GUIDE (30 MPH)

ROADWAY CROSS SECTION (FEET)		TAPER L= WS2	
ATA	8 + 8	(FEET)	
80	60	150	
80	40	300	
80	27	400	
70	40	225	
70	27	325	
60	40	150	
60	27	250	7
40	27	100	7

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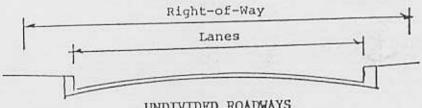
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GEOMETRIC STREET DESIGN STANDARDS (Minimum Standards)



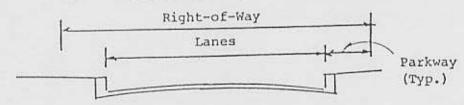
DIVIDED ROADWAYS Arterials

- * P6D Principal Arterial, 6 Lanes, Divided
- * P4D Principal Arterial, 4 Lanes, Divided



UNDIVIDED ROADWAYS Arterials - Collectors

- * M4U Minor Arterial, 4 Lanes, Undivided
- * C4U Major Collector, 4 Lanes, Undivided
- * C2U Hinor Collector, 2 Lanes, Undivided



LOCAL STREET

* L2U - Residential, 2 Lanes, Undivided

Design Element	Roadway Type						
	P6D	P4D	M4U	C4U	C2U	L2U	
Number Traffic Lanes	6	4	4	4	2	2	
Lane Width (Ft.)	12	12	12	11	36'- 40' F-F	27' F-F	
R.O.W. Width (Ft.)	120	100	70	65	60	50	
Design Speed (MPH)	40 - 50	40 - 50	35 - 45	30 - 40	30 - 40	20 - 30	
Max. Grade (%)	6	6	6	8	8	10	
Stopping Sight Distance (Ft.)	325 - 525	325 - 475	250 - 400	200 - 325	200 - 325	125 - 200	
Horizontal Curvature Min. Radius (Ft.)	2000	2000	1050	850	850	450 or 300 *	
Vertical Clearance (Ft.)	15.5	15.5	15.5	15.5	15.5	15.5	
Lateral Clearance (Ft.)	6	6	6	6	6		
Min. Median Width (Ft.)	28	28	5	-	ž	-	
Parking Permitted	No	No	No	No	Some	Yes	
Parkway Width (Ft.)	10	12	11	10.5	10	11.5	

For local streets less than 2000' long.

RIGHT TURN LANE RIGHT-OF-WAY REQUIREMENTS +Transition + Z Additional R.O.W.for Right Turn Lane Storage -Storage─-\Transition → EXHIBIT Arterial or Collector Arterial or Collector ←Transition + Storage Right Turn Lane Right-Of-Way Dimensions **Dimensions** Classification ISO' Storage: ISO' Transition (or as determined by a thorough are study) +Transition + Arterial to Arterial 100' Storage; 150' Transition Arterial to Collector 100' Storage; 100' Transition Collector to Arterial As Determined By Appendix F-5 NOT TO SCALE

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